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(54) STORE AND RETRIEVAL METHOD OF XML DATA, AND XML DATA RETRIEVAL SYSTEM

(57) Abstract:

PROBLEM TO BE SOLVED: To make storable XML data into a data base and to make executable a complicated inquiry at a high speed.

SOLUTION: A relation data base of an XML data store means 1 includes an intermediate node table 2 which stores the intermediate node information, a link table 3 which stores the link information, a leaf node table 4 which stores the leaf nodes, an attribute table 5 which stores the attribute information, a path ID table 6 where the path IDs are made to correspond to the character strings and a label ID table 7 where the label IDs are made to correspond to the character strings. The XML data which are expressed in a tree structure are divided into nodes, and these nodes are made to correspond to the link information and stored in the ta-

bles 2-7. When the XML data are retrieved, an inquiry statement is given to an inquiry processing means 9. The means 9 executes an inquiry to track a tree structure by using index 8 and outputs a requested retrieval result.

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